

(19)



JAPANESE PATENT OFFICE



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **05284074 A**

(43) Date of publication of application: **29.10.93**

(51) Int. Cl

**H04B 7/26**

**H04B 7/26**

(21) Application number: **04077113**

(22) Date of filing: **31.03.92**

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**(54) REPEATER DEVICE FOR MOBILE RADIO EQUIPMENT**

(57) Abstract:

**PURPOSE:** To provide a repeater device for mobile radio equipment which enables radio communication between a mobile radio equipment (portable telephone set or the like) shielded from the outside and an external base station.

**CONSTITUTION:** The output radio wave signals of an external base station 10 are received by a first antenna 1a installed outside, these received signals are amplified to a fixed communication enable level by an amplifying means 4 installed in a space 20 shielded from the outside, and these amplified signals are transmitted from a second antenna 1b installed in the space 20 to a mobile station 30 in the space. On the other hand, output radio wave signals from the mobile station 30 are received by the second antenna 1b, these received signals are amplified to the fixed communication enable level by the amplifying means 4, and these amplified signals are transmitted from the first antenna 1a to the base station 10. Thus, proper communication can be performed between the external base station 10 and the mobile station 30 installed under the radio communication disable environment in the space 20 shielded from the outside.

